

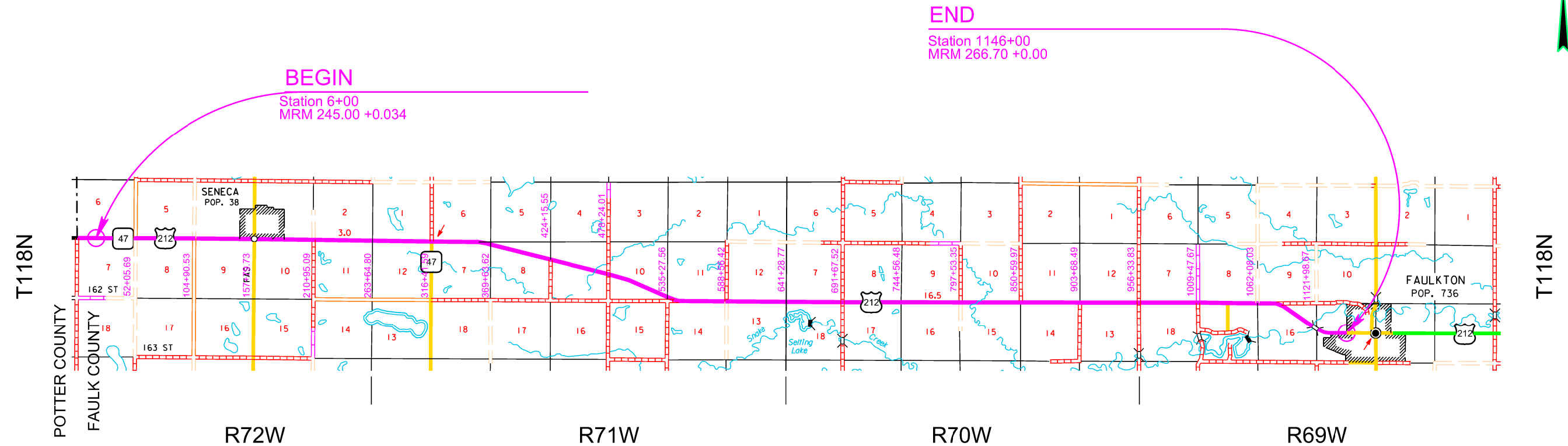
Project 000P-152  
US Highway 212  
Faulk County  
Remove Silt Fence and Reseed  
PCN i6WU

STATE OF SOUTH DAKOTA	PROJECT	SHEET	TOTAL SHEETS
	000P-152	1	14

Plotting Date: 09/09/2022

## INDEX OF SHEETS

- |      |  |
|------|--|
| 1    | Title Sheet With Index                               |
| 2-3  | Estimate of Quantities and Environmental Commitments |
| 4    | Plan Tables  |
| 5    | Traffic Control                                      |
| 6-14 | Original Plan Sheets                                 |



# ESTIMATE OF QUANTITIES AND ENVIRONMENTAL COMMITMENTS

STATE OF SOUTH DAKOTA	PROJECT	SHEET	TOTAL SHEETS
	000P-152	2	14

BID ITEM NUMBER	ITEM	QUANTITY	UNIT
009E0010	Mobilization	Lump Sum	LS
110E1700	Remove Silt Fence	5,141	Ft
634E0110	Traffic Control Signs	64.0	SqFt
634E0120	Traffic Control, Miscellaneous	Lump Sum	LS
730E0251	Special Permanent Seed Mixture 1	560	Lb

## SPECIFICATIONS

Standard Specifications for Roads and Bridges, 2015 Edition and Required Provisions, Supplemental Specifications, and Special Provisions as included in the Proposal.

## ENVIRONMENTAL COMMITMENTS

The SDDOT is committed to protecting the environment and uses Environmental Commitments as a communication tool for the Engineer and Contractor to ensure that attention is given to avoid, minimize, and/or mitigate an environmental impact. Environmental commitments to various agencies and the public have been made to secure approval of this project. An agency with permitting authority can delay a project if identified environmental impacts have not been adequately addressed. Unless otherwise designated, the Contractor's primary contact regarding matters associated with these commitments will be the Project Engineer. During construction, the Project Engineer will verify that the Contractor has met Environmental Commitment requirements. These environmental commitments are not subject to change without prior written approval from the SDDOT Environmental Office.

Additional guidance on SDDOT's Environmental Commitments can be accessed through the Environmental Procedures Manual found at: <<https://dot.sd.gov/media/documents/EnvironmentalProceduresManual.pdf>>

For questions regarding change orders in the field that may have an effect on an Environmental Commitment, the Project Engineer will contact the Environmental Engineer at 605-773-3180 or 605-773-4336 to determine whether an environmental analysis and/or resource agency coordination is necessary.

Once construction is complete, the Project Engineer will review all environmental commitments for the project and document their completion.

## COMMITMENT B: FEDERALLY THREATENED, ENDANGERED, AND PROTECTED SPECIES

### COMMITMENT B2: WHOOPING CRANE

The Whooping Crane is a spring and fall migratory bird in South Dakota that is about 5 feet tall and typically stops on wetlands, rivers, and agricultural lands along their migration route. An adult Whooping Crane is white with a red crown and a long, dark, pointed bill. Immature Whooping Cranes are cinnamon brown. While in flight, their long necks are kept straight and their long dark legs trail behind. Adult Whooping Cranes' black wing tips are visible during flight.

### Action Taken/Required:

Harassment or other measures to cause the Whooping Crane to leave the site is a violation of the Endangered Species Act. If a Whooping Crane is sighted roosting in the vicinity of the project, borrow pits, or staging areas associated with the project, cease construction activities in the affected area until the Whooping Crane departs and immediately contact the Project Engineer. The Project Engineer will contact the Environmental Office so that the sighting can be reported to USFWS.

### COMMITMENT C: WATER SOURCE

The Contractor will not withdraw water with equipment previously used outside the State of South Dakota or previously used in aquatic invasive species (AIS) positive waters within South Dakota without prior approval from the SDDOT Environmental Office. To prevent and control the introduction and spread of invasive species into the project vicinity, all equipment will be power washed with hot water (≥140 °F) and completely dried for a minimum of 7 days prior to subsequent use. South Dakota administrative rule 41:10:04:02 forbids the possession and transport of AIS; therefore, all attached dirt, mud, debris and vegetation must be removed and all compartments and tanks capable of holding standing water must be drained. This includes, but is not limited to, all equipment, pumps, lines, hoses and holding tanks.

### Action Taken/Required:

The Contractor will obtain the necessary permits from the regulatory agencies such as the South Dakota Department of Agriculture and Natural Resources (DANR) and the United States Army Corps of Engineers (USACE) prior to water extraction activities.

Additional information and mapping of water sources impacted by Aquatic Invasive Species in South Dakota can be accessed at: < <http://sdleastwanted.com/maps/default.aspx> >

< [South Dakota Administrative Rule 41:10:04 Aquatic Invasive Species: https://sdlegislature.gov/rules/DisplayRule.aspx?Rule=41:10:04](https://sdlegislature.gov/rules/DisplayRule.aspx?Rule=41:10:04) >

### COMMITMENT E: STORM WATER

Construction activities constitute less than 1 acre of disturbance.

### Action Taken/Required:

At a minimum and regardless of project size, appropriate erosion and sediment control measures must be installed to control the discharge of pollutants from the construction site.

### COMMITMENT H: WASTE DISPOSAL SITE

The Contractor will furnish a site(s) for the disposal of construction and/or demolition debris generated by this project.

### Action Taken/Required:

Construction and/or demolition debris may not be disposed of within the Public ROW.

The waste disposal site(s) will be managed and reclaimed in accordance with the following from the General Permit for Construction/Demolition Debris Disposal Under the South Dakota Waste Management Program issued by the Department of Agriculture and Natural Resources.

The waste disposal site(s) will not be located in a wetland, within 200 feet of surface water, or in an area that adversely affects wildlife, recreation, aesthetic value of an area, or any threatened or endangered species, as approved by the Environmental Office and the Project Engineer.

If the waste disposal site(s) is located such that it is within view of any ROW, the following additional requirements will apply:

1. Construction and/or demolition debris consisting of concrete, asphalt concrete, or other similar materials will be buried in a trench separate from wood debris. The final cover over the construction and/or demolition debris will consist of a minimum of 1 foot of soil capable of supporting vegetation. Waste disposal sites provided outside of the Public ROW will be seeded in accordance with Natural Resources Conservation Service recommendations. The seeding recommendations may be obtained through the appropriate County NRCS Office. The Contractor will control the access to waste disposal sites not within the Public ROW with fences, gates, and placement of a sign or signs at the entrance to the site stating, "No Dumping Allowed".

2. Concrete and asphalt concrete debris may be stockpiled within view of the ROW for a period not to exceed the duration of the project. Prior to project completion, the waste will be removed from view of the ROW or buried, and the waste disposal site reclaimed as noted above.

The above requirements will not apply to waste disposal sites that are covered by an individual solid waste permit as specified in SDCL 34A-6-58, SDCL 34A-6-1.13, and ARSD 74:27:10:06. Failure to comply with the requirements stated above may result in civil penalties in accordance with South Dakota Solid Waste Law, SDCL 34A-6-1.31.

All costs associated with furnishing waste disposal site(s), disposing of waste, maintaining control of access (fence, gates, and signs), and reclamation of the waste disposal site(s) will be incidental to the various contract items.

**COMMITMENT I: HISTORIC PRESERVATION OFFICE CLEARANCES**

State Historic Preservation Office (SHPO or THPO) concurrence has not been obtained for this project.

**Action Taken/Required:**

All earth disturbing activities require a cultural resource review prior to scheduling the pre-construction meeting. This work includes but is not limited to: Contractor furnished material sources, material processing sites, stockpile sites, storage areas, plant sites, and waste areas.

The Contractor will arrange and pay for a record search and when necessary, a cultural resource survey. The Contractor has the option to contact the state Archaeological Research Center (ARC) at 605-394-1936 or another qualified archaeologist, to obtain either a records search or a cultural resources survey. A record search might be sufficient for review if the site was previously surveyed; however, a cultural resources survey may need to be conducted by a qualified archaeologist.

The Contractor will provide ARC with the following: a topographical map or aerial view in which the site is clearly outlined, site dimensions, project number, and PCN. If applicable, provide evidence that the site has been previously disturbed by farming, mining, or construction activities with a landowner statement that artifacts have not been found on the site.

The Contractor will submit the cultural resources survey report to SDDOT Environmental Office, 700 East Broadway Avenue, Pierre, SD 57501-2586. SDDOT will submit the information to the appropriate SHPO/THPO. Allow **30 Days** from the date this information is submitted to the Environmental Engineer for SHPO/THPO review.

In the event of an inadvertent discovery of human remains, funerary objects, or if evidence of cultural resources is identified during project construction activities, then such activities within 100 feet of the inadvertent discovery will immediately cease and the Project Engineer will be immediately notified. The Project Engineer will contact the SDDOT Environmental Office, who will contact the appropriate SHPO/THPO within 48 hours of the discovery to determine an appropriate course of action.

The Contractor is responsible for obtaining any additional permits and clearances for Contractor furnished material sources, material processing sites, stockpile sites, storage areas, plant sites, and waste areas that affect wetlands, threatened and endangered species, or waterways. The Contractor will not utilize a site known or suspected of having contaminated soil or water. The Contractor will provide the required permits and clearances to the Project Engineer at the preconstruction meeting.

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STATE OF SOUTH DAKOTA	PROJECT	SHEET	TOTAL SHEETS
	000P-152	4	14

Plotting Date: 09/09/2022

Table of Silt Fence Removal			
MRM	Disp.	Length, FT	Ditch
258.00	0.77	423	N
259.00	0.12	515	N
	0.81	191	N
261.00	0.43	296	N
		308	S
262.00	0.01	164	N
263.00	0.08	336	S
	0.23	269	S
	0.60	312	S
264.00	0.12	235	N
	0.67	301	S
	0.81	201	S
265.00	0.01	154	N
	0.13	518	N
	0.20	20	N
	0.33	592	S
	0.55	19	S
	0.65	21	N
	0.75	20	S
	0.85	18	N
		18	S
266	0.10	72	N
	0.14	74	N
	0.24	20	S
	0.37	18	N
		26	S
	TOTAL	5141	

PERMANENT SEEDING

The areas to be seeded consist of all newly graded areas within the project limits except for the top of roadways and temporary easements under cultivation.

Special Permanent Seed Mixture 1 shall consist of the following:

Grass Species	Variety	Pure Live Seed (PLS) (Pounds/Acre)
Western Wheatgrass	Arriba, Flintlock, Rodan, Rosana, Walsh	7
Switchgrass	Dacotah, Forestburg, Nebraska 28, Pathfinder, Summer, Sunburst, Trailblazer	3
Indiangrass	Holt, Tomahawk, Chief, Nebraska 54	3
Big Bluestem	Bison, Bonilla, Champ, Sunnyview, Rountree, Bonanza	3
QuickGuard or Regreen -use April through November		10
Oats or Spring Wheat -use April through May		
Winter Wheat -use August through November		
Total:		26

Seeding Fm Station 478+24 to 691+67 Rt, 40' width; also two other locations (1500' x 40' & 300' x 40') as directed by Engineer.

All silt fence will be disposed of by the Contractor. All costs to remove and dispose of silt fence will be incidental to the contract unit price per foot to "Remove Silt Fence".

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STATE OF SOUTH DAKOTA	PROJECT	SHEET	TOTAL SHEETS
	000P-152	6	14

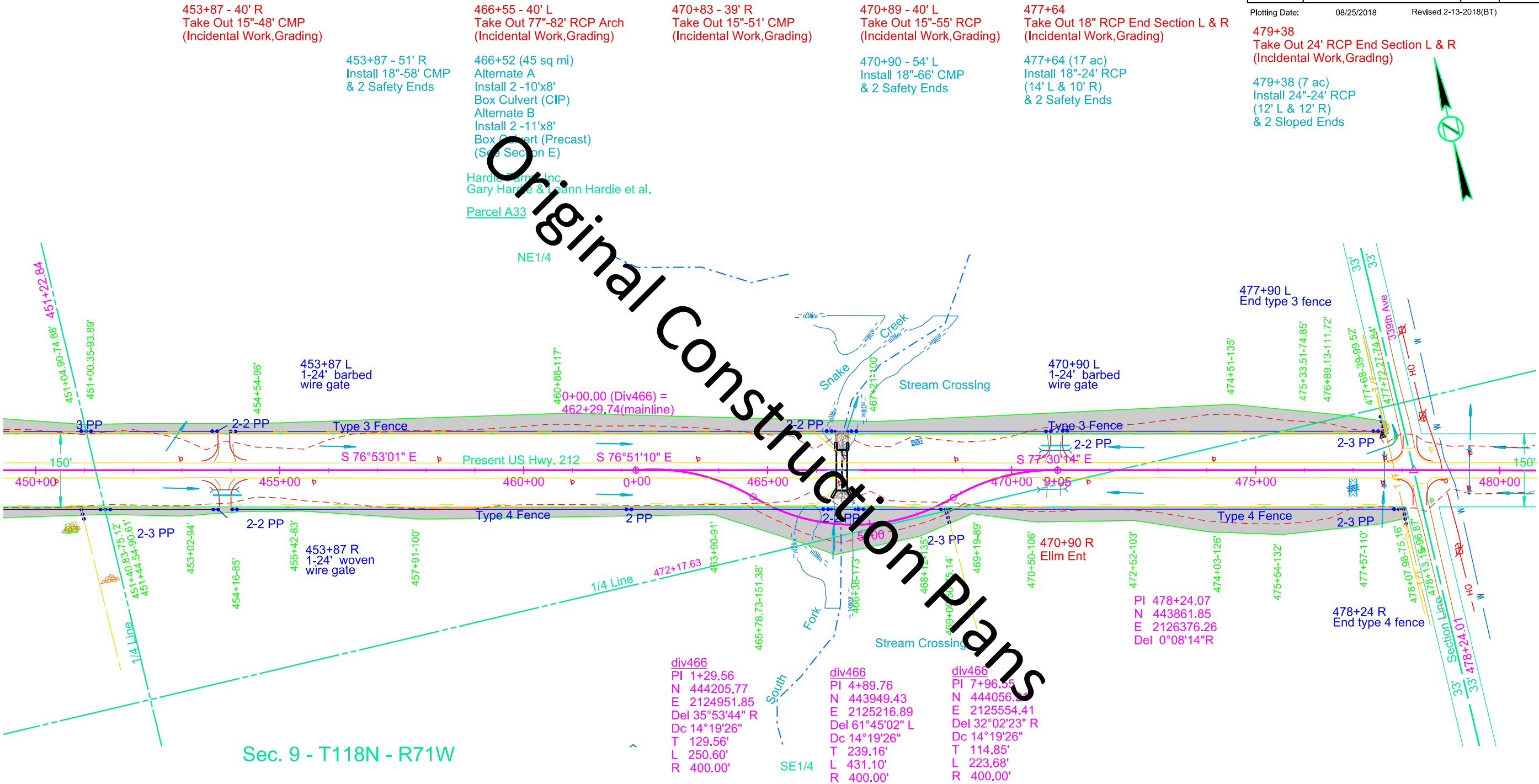
Plotting Date: 09/09/2022

STATE OF SOUTH DAKOTA	PROJECT	SHEET	TOTAL SHEETS
	NH-PH 0212(167)245	B55	B121

Plotting Date: 08/25/2018 Revised 2-13-2018(BT)

479+38  
Take Out 24' RCP End Section L & R  
(Incidental Work,Grading)

479+38 (7 ac)  
Install 24"-24' RCP  
(12' L & 12' R)  
& 2 Sloped Ends



Gary Hardie & Leann Hardie

Parcel A34

Parcel A33  
451+00.35 to 476+89.13 L  
Temporary Easement containing  
2.0 ac, more or less

Parcel A33  
451+40.83 to 469+00.50 R  
Temporary Easement containing  
1.0 ac, more or less

Parcel A34  
465+78.73 to 478+13.15 R  
Temporary Easement containing  
1.0 ac, more or less

Parcel A34  
475+33.51 to 477+72.27 L  
Temporary Easement containing  
0.1 ac, more or less

Plot Scale - 1:200

Plot Scale - 1:200

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STATE OF SOUTH DAKOTA	PROJECT	SHEET	TOTAL SHEETS
	000P-152	7	14

STATE OF SOUTH DAKOTA	PROJECT	SHEET	TOTAL SHEETS
	NH-PH 0212(167)245	B57	B121

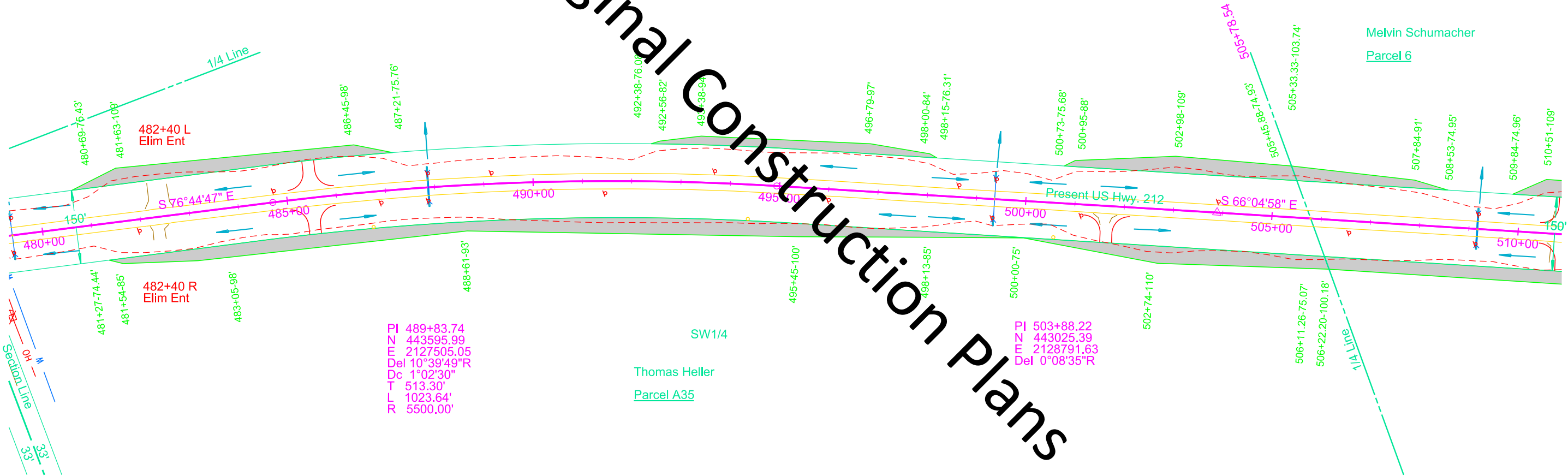
Plotting Date: 08/25/2018

509+17  
Take Out 24"- 50' RCP  
(Incidental Work,Grading)

509+17 (7 ac)  
Install 24"-70' RCP  
& 2 Sloped Ends



Original Construction Plans



487+87  
Take Out 24"-52' RCP  
(Incidental Work,Grading)

487+87 (28 ac)  
Install 24"-70' RCP  
& 2 Sloped Ends

499+36  
Take Out 24" RCP End Section L & R  
(Incidental Work,Grading)

499+36 (27 ac)  
Install 24"-28' RCP  
(14' L & 14' R)  
& 2 Sloped Ends

PI 489+83.74  
N 443595.99  
E 2127505.05  
Del 10°39'49"R  
Dc 1°02'30"  
T 513.30'  
L 1023.64'  
R 5500.00'

PI 503+88.22  
N 443025.39  
E 2128791.63  
Del 0°08'35"R

SW1/4  
Thomas Heller  
Parcel A35

Sec. 10 - T118N - R71W

Parcel A35  
480+69 to 487+21 L  
Temporary Easement containing  
0.4 ac, more or less

Parcel A35  
481+27 to 506+22.20 R  
Temporary Easement containing  
1.3 ac, more or less

Parcel A35  
492+38 to 498+15 L  
Temporary Easement containing  
0.2 ac, more or less

Parcel A35  
500+73 to 505+45.88 L  
Temporary Easement containing  
0.3 ac, more or less

Parcel 6  
505+33.33 to 508+53 L  
Temporary Easement containing  
0.1 ac, more or less

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542+01-107' R  
Take Out 18"-40' CMP  
(Incidental Work, Grading)

542+35-1' L  
Take Out 18"-81' RCP  
(Incidental Work, Grading)

542+35 (10 ac)  
Install 18"-30' RCP  
(10' L & 20' R)  
& 2 Safety Ends

549+00-51' R  
Install 18"-76' CMP  
& 2 Safety Ends

561+55  
Take Out 24"-8' RCP L & R  
& End Section L & R  
(Incidental Work, Grading)

561+55 (24 ac)  
Install 24"-40' RCP  
(20' L & 20' R)  
& 2 Sloped Ends

568+55  
Take Out 18"-8' RCP L & R  
& End Section L & R  
(Incidental Work, Grading)

568+55 (10 ac)  
Install 18"-44' RCP  
(22' L & 22' R)  
& 2 Safety Ends

Original Construction Plans

Gary Hardie & Leann Hardie  
Parcel A36

Robert Holmes, deceased  
Parcel A39

Sec. 11 - T118N - R71W

SE1/4

Present US Hwy. 212

NE1/4

B & G Schilder Land, LLC  
Parcel A40

Sec. 14 - T118N - R71W

Parcel A36  
546+23.77 to 554+78 L  
Temporary Easement containing  
0.4 ac, more or less

Parcel A36  
557+18 to 562+19.93 L  
Temporary Easement containing  
0.2 ac, more or less

Parcel A37  
544+21.90 to 549+03.22 R  
Temporary Easement containing  
0.2 ac, more or less

Parcel A38  
549+02.85 to 554+84 R  
Temporary Easement containing  
0.2 ac, more or less

Parcel A38  
557+89 to 562+19.42 R  
Temporary Easement containing  
0.1 ac, more or less

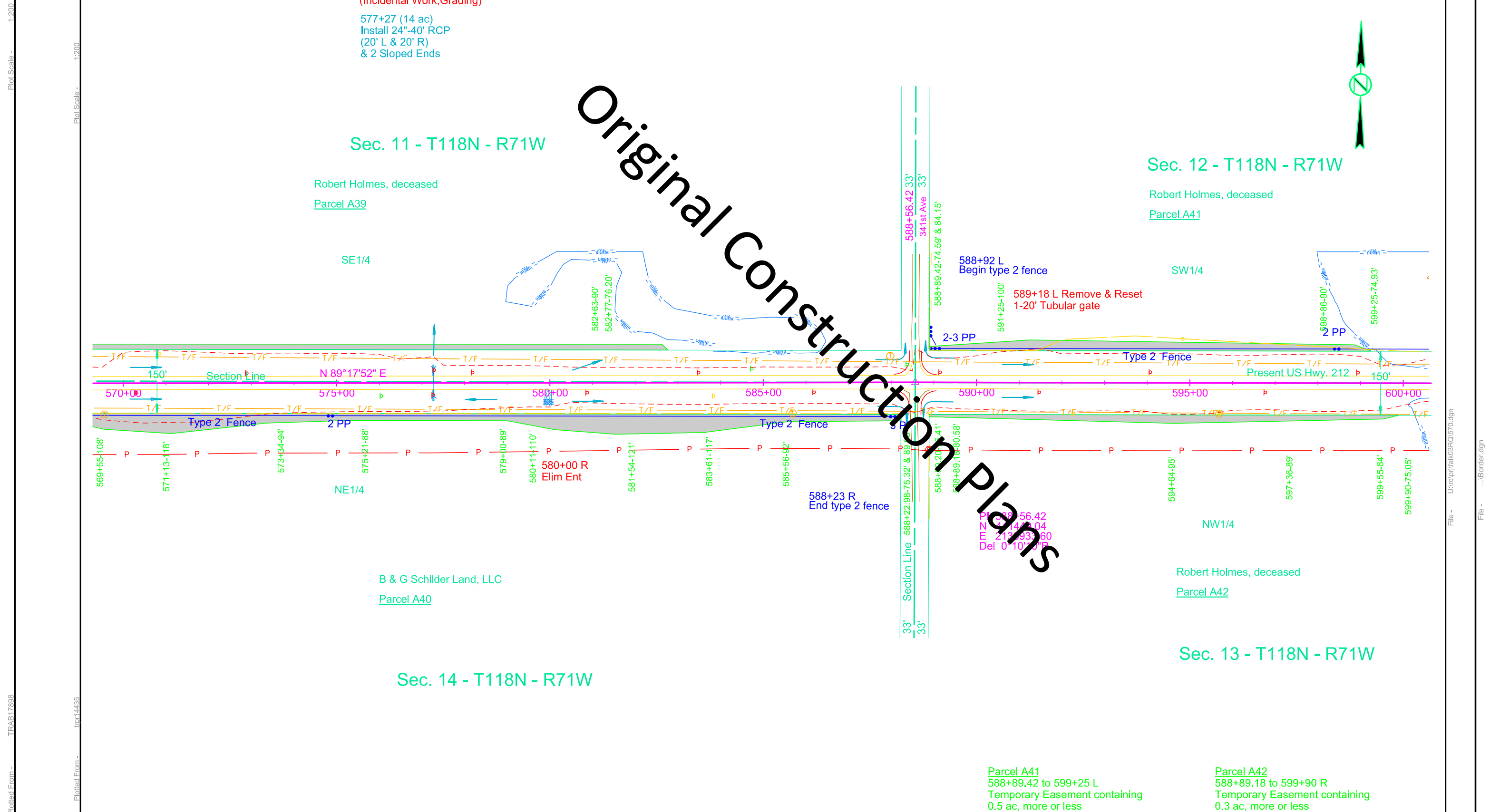
Parcel A39  
562+19.85 to 582+77 L  
Temporary Easement containing  
0.9 ac, more or less

Parcel A40  
562+19.42 to 588+22.98 R  
Temporary Easement containing  
1.7 ac, more or less

STATE OF SOUTH DAKOTA	PROJECT	SHEET	TOTAL SHEETS
	000P-152	10	14

Plotting Date: 09/09/2022			
STATE OF SOUTH DAKOTA	PROJECT	SHEET	TOTAL SHEETS
	NH-PH 0212(167)245	B63	B121

Plotting Date: 08/25/2018



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TRAB17898

Plot Scale -  
1:200

Iron14435

STATE OF SOUTH DAKOTA	PROJECT	SHEET	TOTAL SHEETS
	000P-152	11	14

Plotting Date: 09/09/2022

STATE OF SOUTH DAKOTA	PROJECT	SHEET	TOTAL SHEETS
	NH-PH 0212(167)245	B65	B121

Plotting Date: 08/25/2018 Rev.4/10/18(BT)

601+80  
Take Out 24"-8' RCP L & R  
& End Section L & R  
(Incidental Work,Grading)

601+80 (37 ac)  
Install 24"-44' RCP  
(20' L & 24' R)  
& 2 Sloped Ends

611+98  
Take Out 54" RCP End Section L & R  
(Incidental Work,Grading)

611+98 (805 ac)  
Install 54"-18' RCP  
(8' L & 10' R)  
& 2 Flared Ends

627+49  
Take Out 24"-4' RCP R  
& End Pipe Section L & R  
(Incidental Work,Grading)

627+49 (6 ac)  
Install 24"-32' RCP  
(12' L & 20' R)  
& 2 Sloped Ends

629+00 L  
Refurbish Single Mailbox



Original Construction Plans

Sec. 12 - T118N - R71W

Sec. 13 - T118N - R71W

Robert Holmes, deceased  
Parcel A41

Gerald Holmes, deceased  
Parcel A43

606+64 L Remove & Reset  
1- 20' Tubular gate

607+36-81' L  
Do Not Disturb Sign

618+46 L Remove & Reset  
1-24' Tubular gate

625+00 L Remove & Salvage  
to Landowner  
1-24' Tubular gate  
(Incidental Work, Grading)

S1/2 SE1/4

SW1/4

NW1/4

NE1/4

Robert Holmes,deceased  
Parcel A42

Robert Holmes,deceased  
Parcel A44

Parcel A41  
604+02 to 608+12 L  
Temporary Easement containing  
0.2 ac, more or less

Parcel A42  
605+80 to 607+45 R  
Temporary Easement containing  
0.1 ac, more or less

Parcel A42  
610+25 to 614+50 R  
Temporary Easement containing  
0.1 ac, more or less

Parcel A43  
616+48 to 640+96.25 L  
Temporary Easement containing  
1.3 ac, more or less

Parcel A44  
616+88 to 626+52 R  
Temporary Easement containing  
0.3 ac, more or less

Parcel A44  
628+94.20 to 629+84.60 R  
Temporary Easement containing  
0.1 ac, more or less

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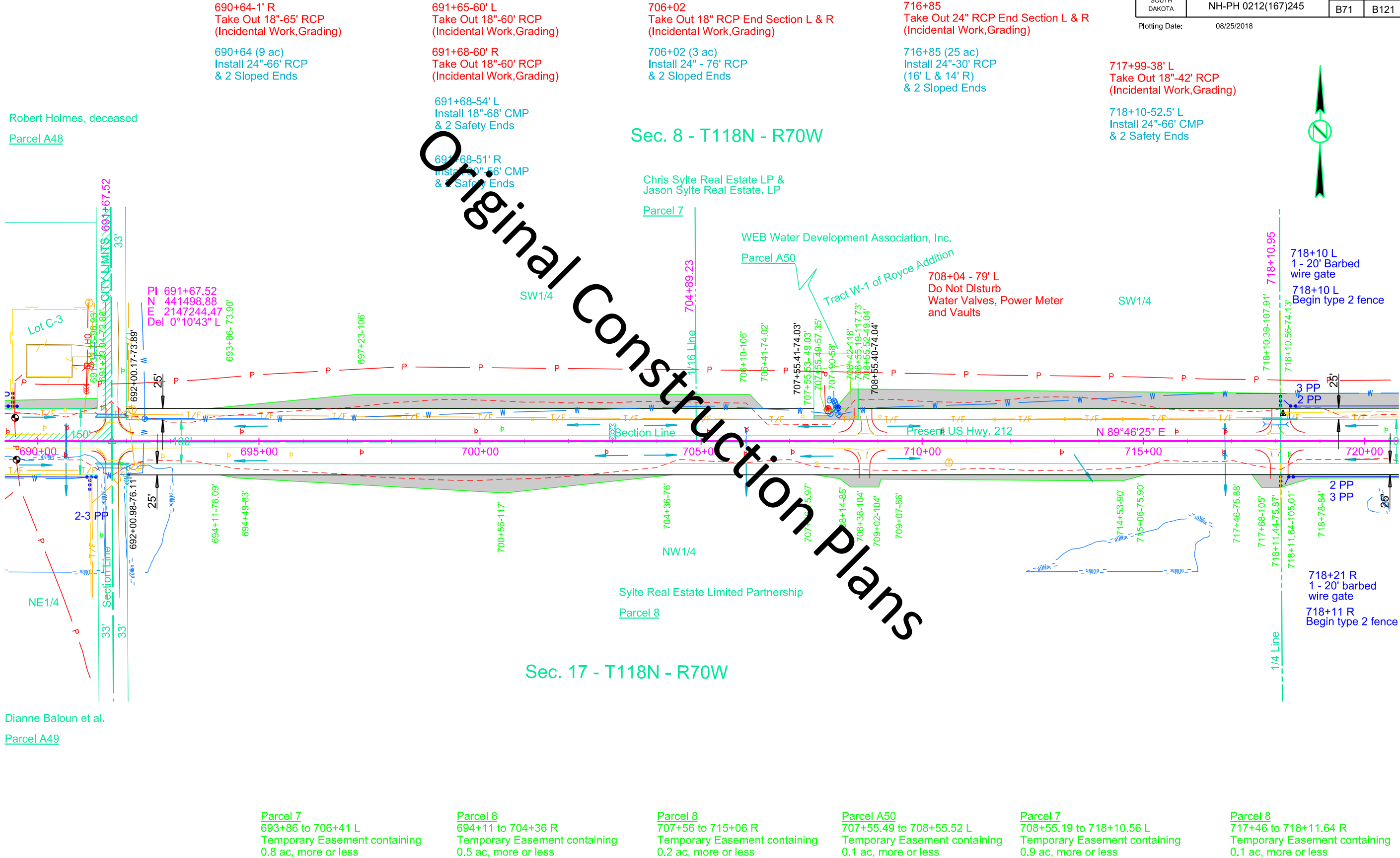
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STATE OF SOUTH DAKOTA	PROJECT	SHEET	TOTAL SHEETS
	000P-152	14	14

Plotting Date: 09/09/2022

STATE OF SOUTH DAKOTA	PROJECT	SHEET	TOTAL SHEETS
	NH-PH 0212(167)245	B71	B121

Plotting Date: 08/25/2018



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